Compound

3718

NITRILE - BUTADIENE
75 DUROMETER - BLACK
TEFLON- FDA APP. MAT'L

PRODUCT DATA SHEET

Compound 3718 is a 75 durometer black colored carboxylated Buna N, it is formulated with Teflon to provide internal lubrication. This compound is formulated with FDA approved materials. It exhibits good resistance to moderate heat and aliphatic fuels. It is also suitable for milk and edible oils.

This compound will meet or exceed the specifications listed and has the following physical properties:

ASTM D2000 2 BF 725 EO14 EO34 Z1

2 BG 725 EA14 EF11 EF21 EO14 EO34 Z1
3 BG 725 B14 EO14 EO34 Z1
4 BG 720 B14 EO14 Z1
5 BG 720 A14 EO14 EO34 Z1

2 CH 725 A25 EO15 EO35 Z1
3 CH 725 A25 EO16 Z1
5 CH 720 A25 F14 Z1
6 CH 720 A25

Z1 = 75+/-5 Shore A Durometer

21 CFR 177.2600

Original Properties

Modulus @ 100% Elongation	875	psi	6.0	MPa
Tensile Strength	2670	psi	18.4	MPa
Ultimate Elongation	479	%		
Hardness, Shore A	79	Durometer		
Specific Gravity	1.29	grams/cc		
Brittleness Temperature	-22	°F	-30	°C
Tear Resistance, Die B	262	ppi	45.9	kN/m
Tear Resistance, Die C	272	ppi	47.6	kN/m

Compression Set

Solid: 22 hrs @ 212°F (100°C)	30.2	%
Solid: 22 hrs @ 257°F (125°C)	36.1	%
Solid: 70 hrs @ 212°F (100°C)	35.4	%
Plied: 22 hrs @ 212°F (100°C)	34.9	%
Plied: 22 hrs @ 257°F (125°C)	43.7	%
Plied: 70 hrs @ 212°F (100°C)	41.9	%

HEAT AGED: 70 hrs @ 212°F (100°C)

Change - Tensile Strength	- 2.2	%
Change - Elongation	- 24.8	%
Change - Hardness, Shore A	+ 2	

Presure Seals, Inc.
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HEAT AGED: 70 hrs @ 257°F (125°C)	
Change - Tensile Strength	- 1.5 %
Change - Elongation	- 7.3 %
Change - Hardness, Shore A	+ 4

HEAT AGED: 70 hrs @ 257°F (125°C) Test Tube Method	
Change - Tensile Strength	- 1.5 %
Change - Elongation	- 7.3 %
Change - Hardness, Shore A	+ 4

DISTILLED WATER AGED: 70 hrs @ 212°F (100°C)	
Change - Hardness, Shore A	- 4
Change - Volume	+ 9.4 %

ASTM REFERENCE FUEL A: 70 hrs @ RT (73°F, 23°C)	
Change - Tensile Strength	- 3.3 %
Change - Elongation	+ 48.6 %
Change - Hardness, Shore A	0
Change - Volume	+ 1.7 %

ASTM REFERENCE FUEL B: 70 hrs @ RT (73°F, 23°C)	
Change - Tensile Strength	- 57.3 %
Change - Elongation	+ 16.1 %
Change - Hardness, Shore A	- 13
Change - Volume	+ 34.3 %

ASTM REFERENCE FUEL C: 70 hrs @ RT (73°F, 23°C)	
Change - Tensile Strength	- 64.6 %
Change - Elongation	- 32.2 %
Change - Hardness, Shore A	- 19
Change - Volume	+ 58.0 %

ASTM OIL #1: 70 hrs @ 212°F (100°C)	
Change - Tensile Strength	0.0 %
Change - Elongation	- 17.1 %
Change - Hardness, Shore A	0
Change - Volume	- 1.2 %

ASTM OIL #1: 70 hrs @ 257°F (125°C)	
Change - Tensile Strength	+ 9.4 %
Change - Elongation	- 14.2 %
Change - Hardness, Shore A	0
Change - Volume	- 1.5 %

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ASTM OIL #1: 70 hrs @ 302°F (150°C)	
Change - Tensile Strength	- 7.9 %
Change - Elongation	- 23.4 %
Change - Hardness, Shore A	+ 3
Change - Volume	- 1.6 %

ASTM OIL #3: 70 hrs @ 212°F (100°C)	
Change - Tensile Strength	- 2.3 %
Change - Elongation	- 9.8 %
Change - Hardness, Shore A	- 2
Change - Volume	+ 8.8 %

ASTM OIL #3: 70 hrs @ 257°F (125°C)	
Change - Tensile Strength	- 12.2 %
Change - Elongation	- 23.4 %
Change - Hardness, Shore A	- 3
Change - Volume	+ 11.3 %

ASTM OIL #3: 70 hrs @ 302°F (150°C)	
Change - Tensile Strength	- 38.4 %
Change - Elongation	- 29.4 %
Change - Hardness, Shore A	- 6
Change - Volume	+ 13.9 %

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